

FIG. 1

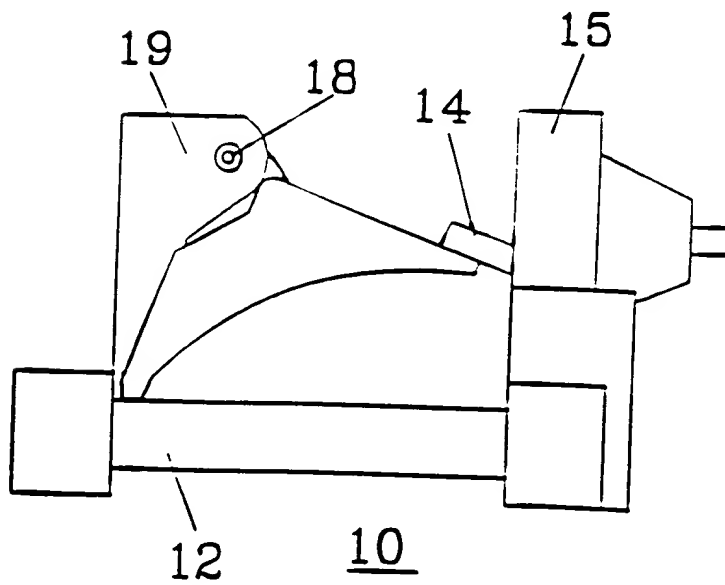


FIG. 2

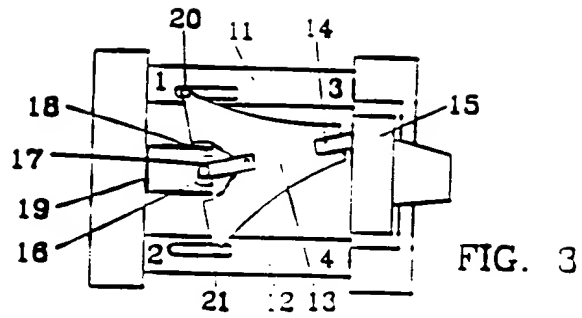


FIG. 3

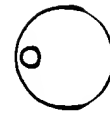


FIG. 3a

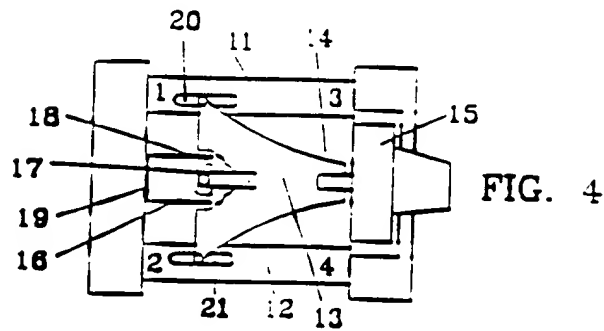


FIG. 4

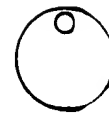


FIG. 4a

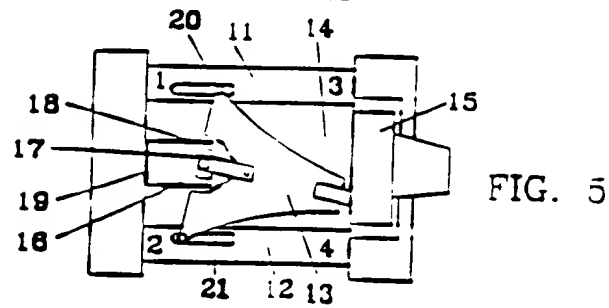


FIG. 5

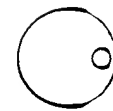
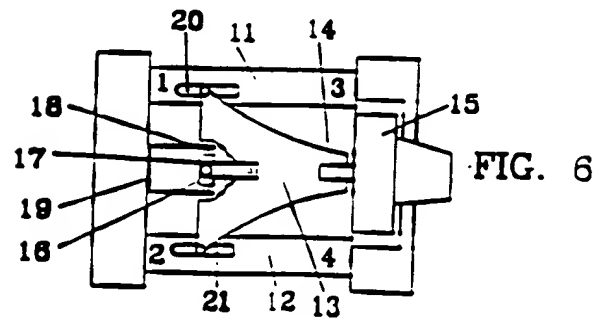


FIG. 5a



**FIG. 6**

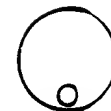


FIG. 6a

This diagram shows a complex mechanical assembly in cross-section. Key features include:

- Housing and Mounting:** The entire unit is housed within a main casing (30) which has mounting tabs at the top (54b) and bottom (54a).
- Internal Drive Mechanism:** A central horizontal shaft (39) is supported by bearings (38). It drives a series of interlocking gears, including a large gear (40) and smaller meshing gears (37, 36).
- Input and Output Shafts:** An input shaft (48) enters from the right, connected via a coupling or belt drive (42) to the main shaft. An output shaft (41) exits from the left.
- Control and Sensing Components:** On the left side, there is a solenoid-like actuator (53) and a sensor or switch assembly (51, 50a) mounted near the main shaft.
- Support Structure:** The internal components are held in place by a frame consisting of upper (47) and lower (44) plates, secured with bolts (43).

FIG. 7

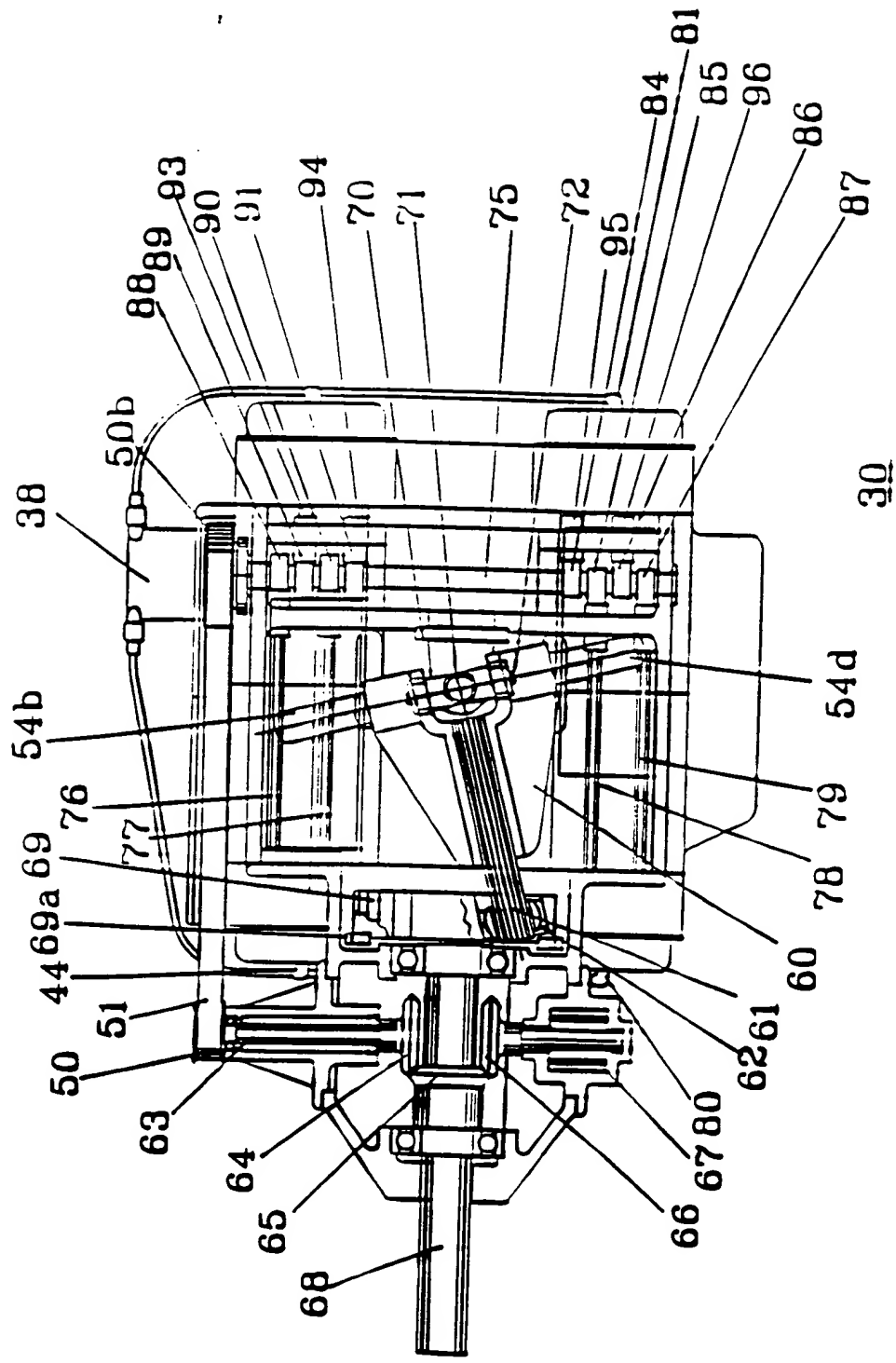


FIG. 8

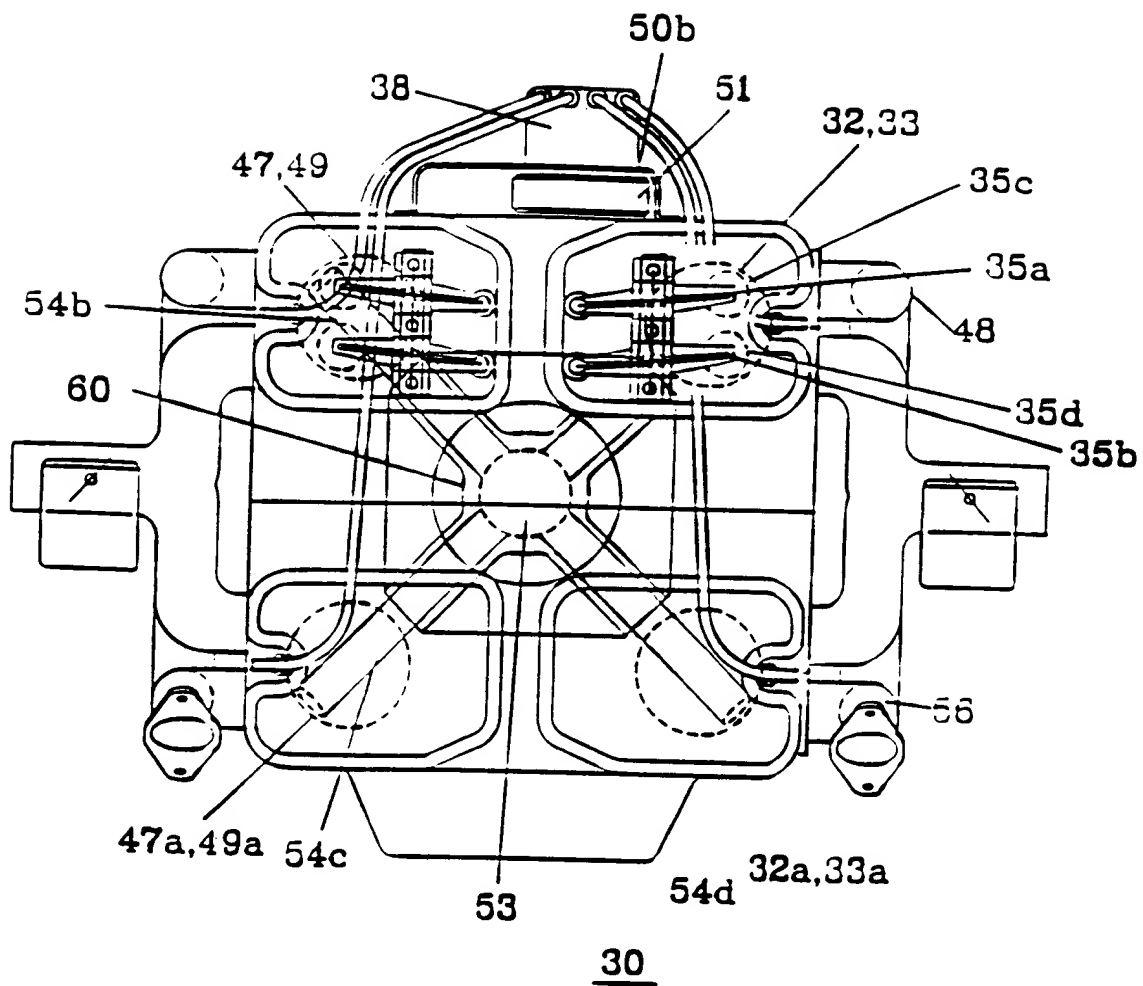


FIG. 9

FIG. 10

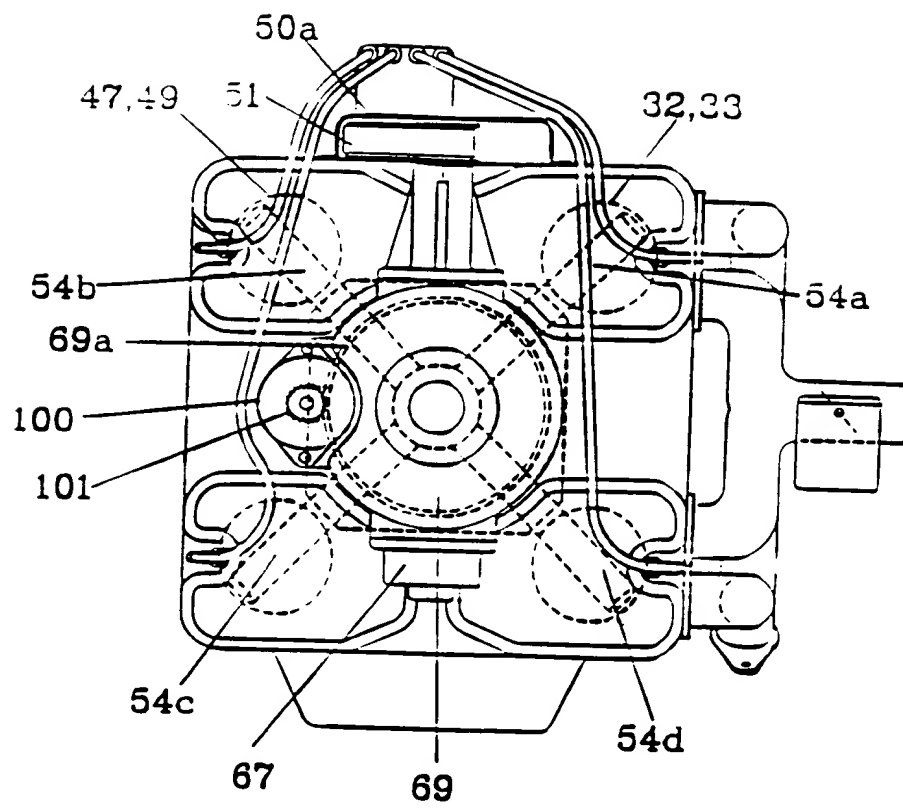
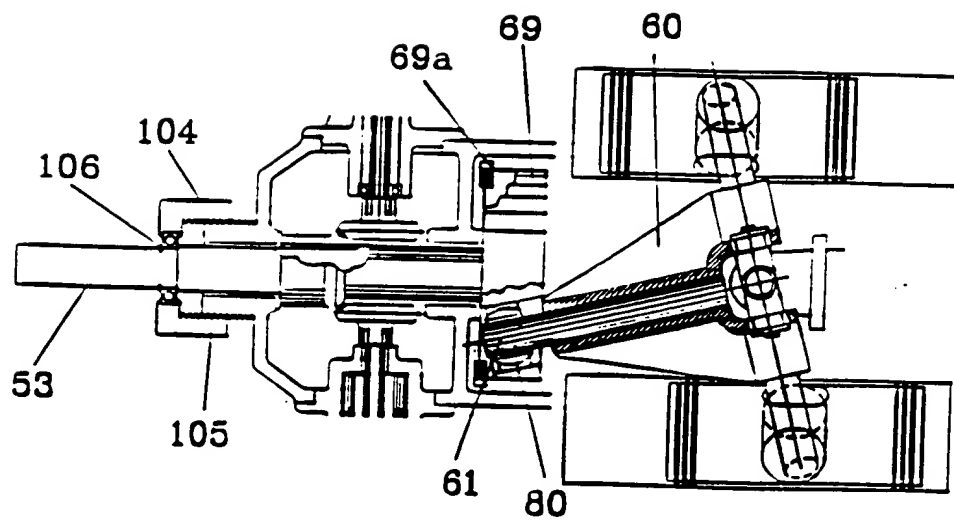


FIG. 11

This technical drawing shows a cross-sectional view of a mechanical assembly. A central shaft, labeled 53, passes through a housing. On the left, a component labeled 106 is mounted on the shaft. The housing has internal features labeled 104 and 105. To the right, a lever or arm is pivoted, with a pin labeled 61. A spring, labeled 60, is shown in two positions, one above and one below the lever. Other labels include 69 and 80, which point to specific internal components and surfaces of the housing.

FIG. 12









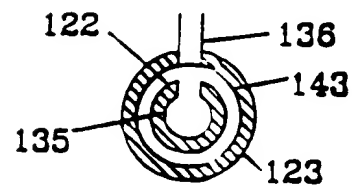
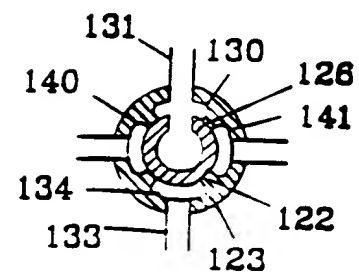
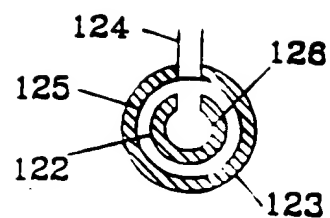
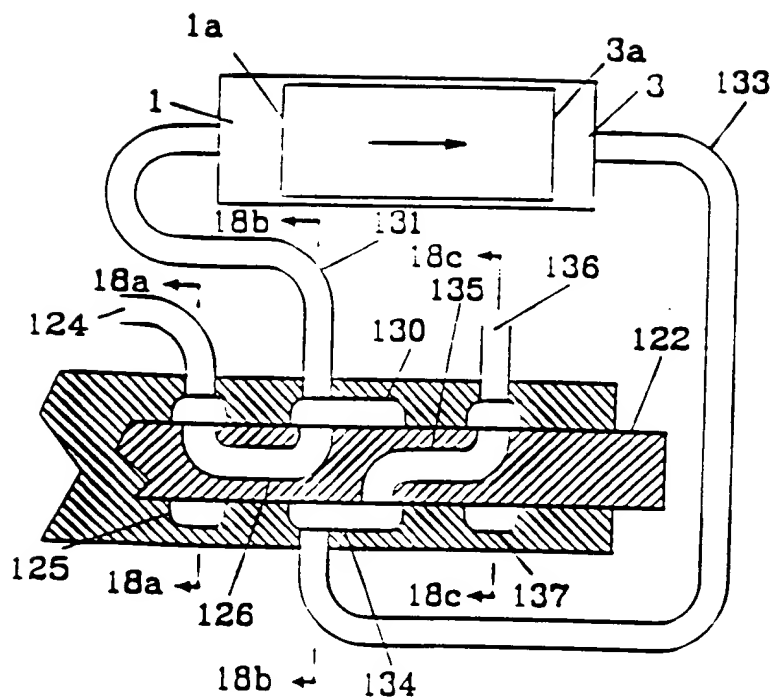


FIG. 10 is a cross-sectional view of a second embodiment of the device. It shows a central shaft 122 with a collar 136. A sleeve 123 is positioned around the shaft, with a locking mechanism 135 and a spring 143.

FIG. 19c

FIG. 20

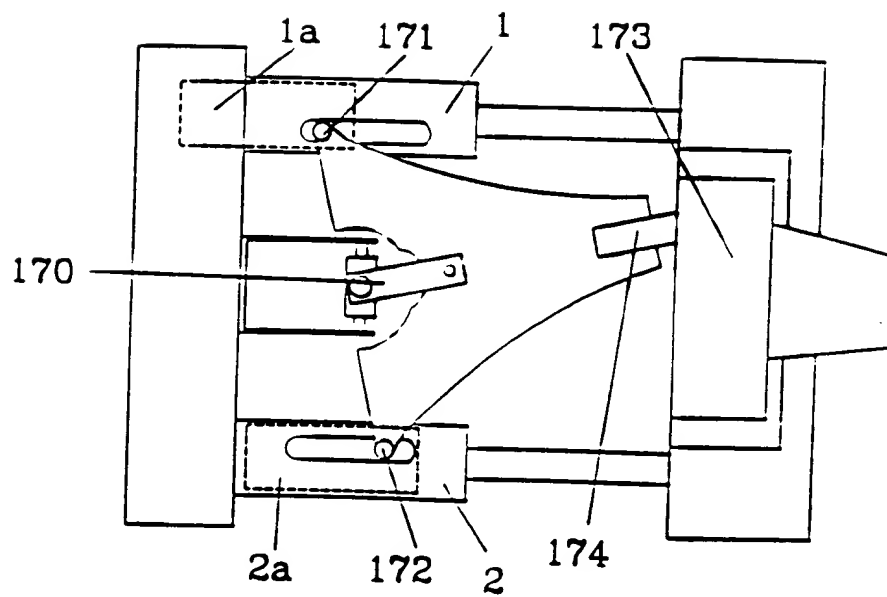
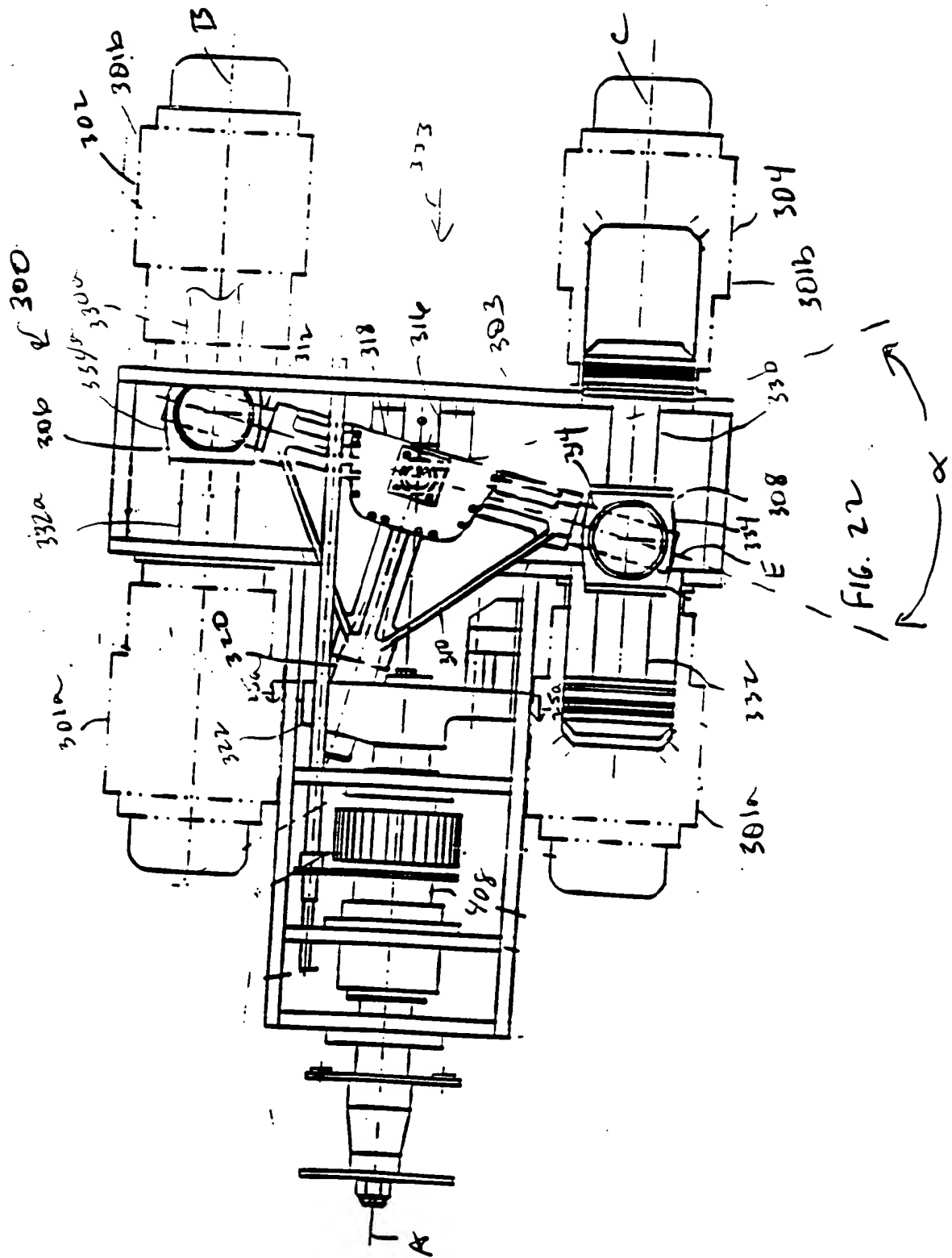


FIG. 21





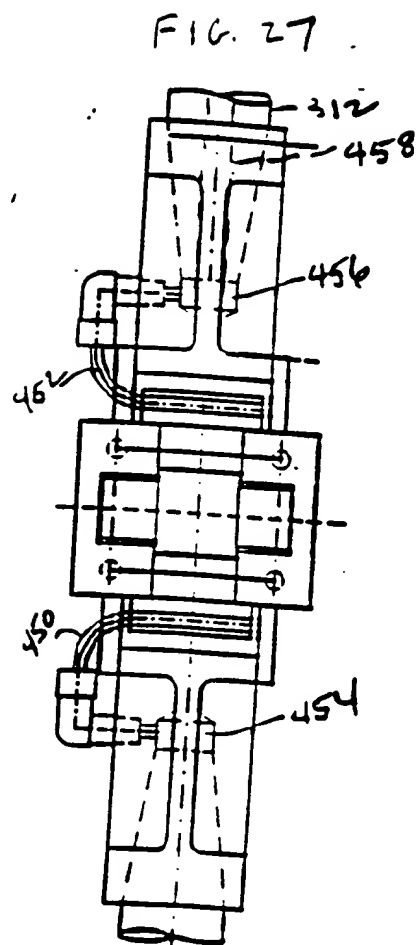
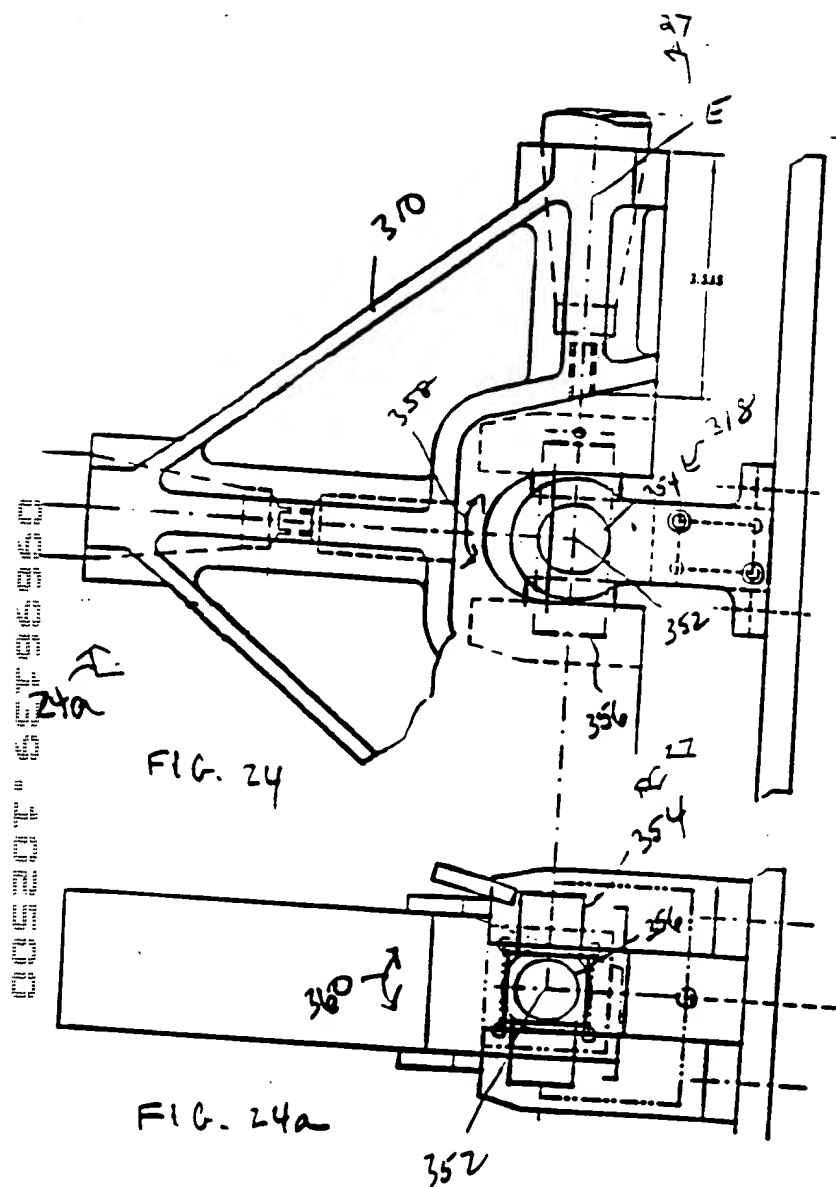
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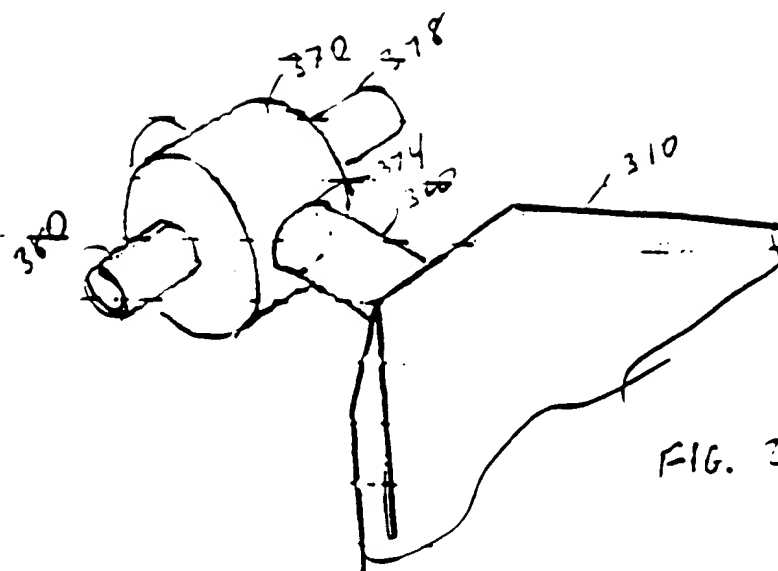


FIG. 25

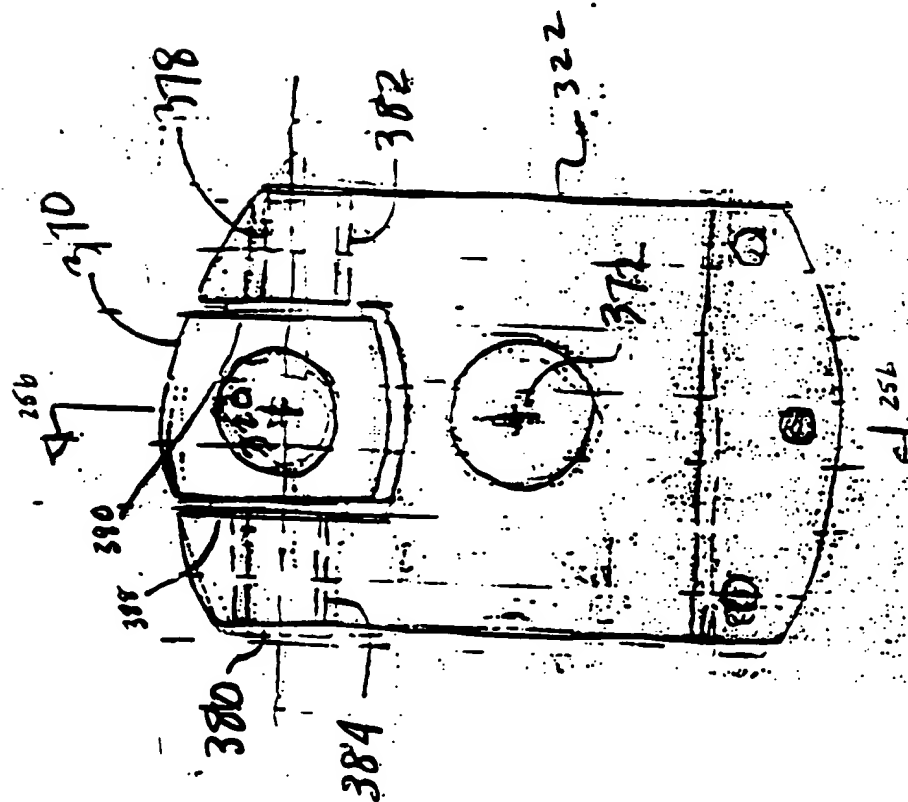


FIG. 25 A

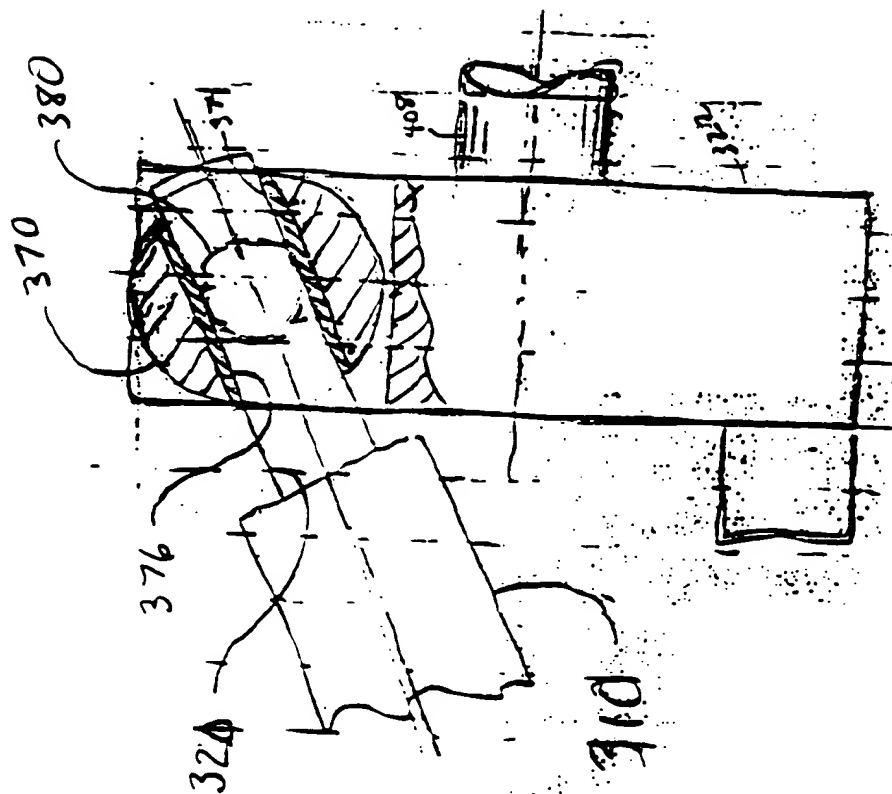


FIG. 25 b

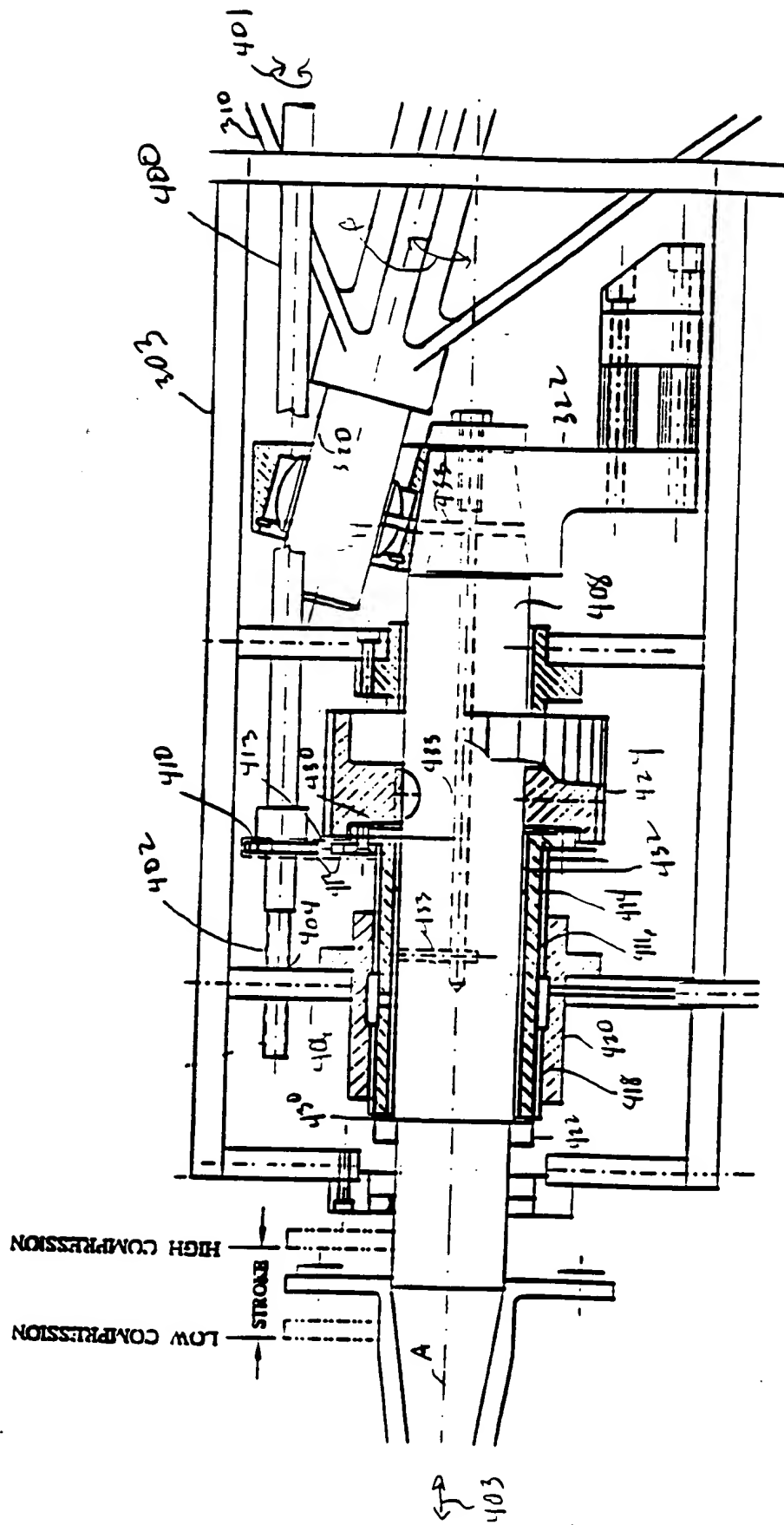


FIG. 26

FIG. 28

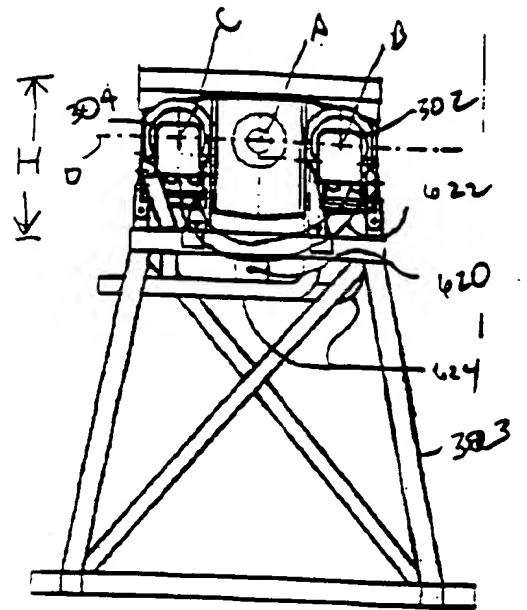
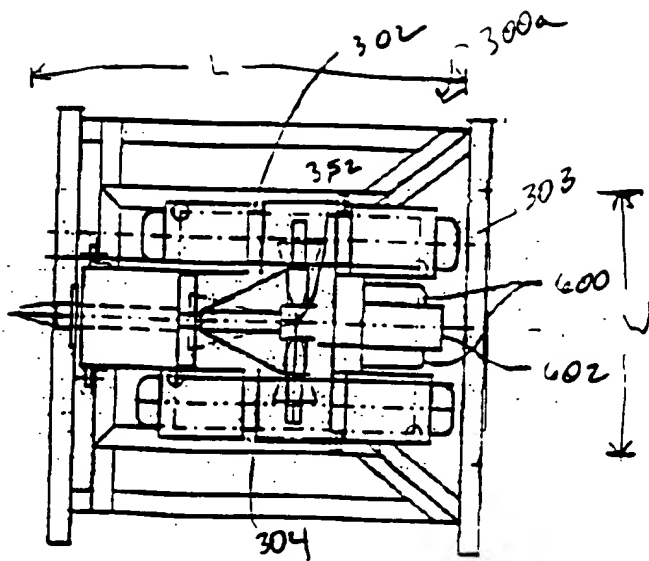


FIG. 28a

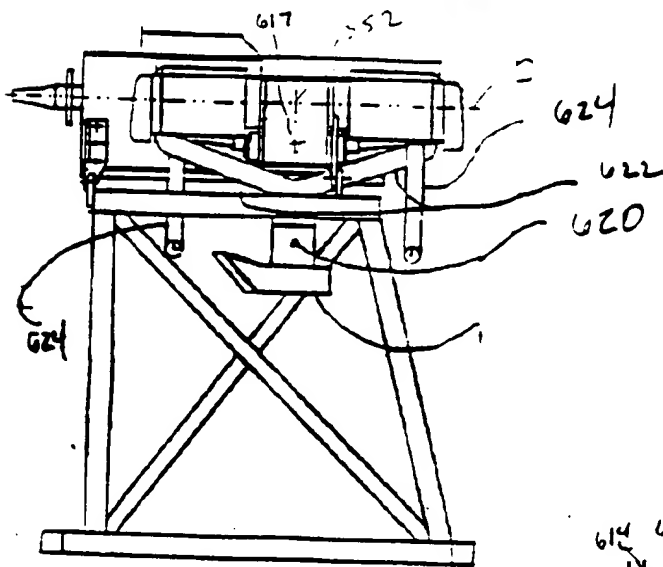


FIG. 28b

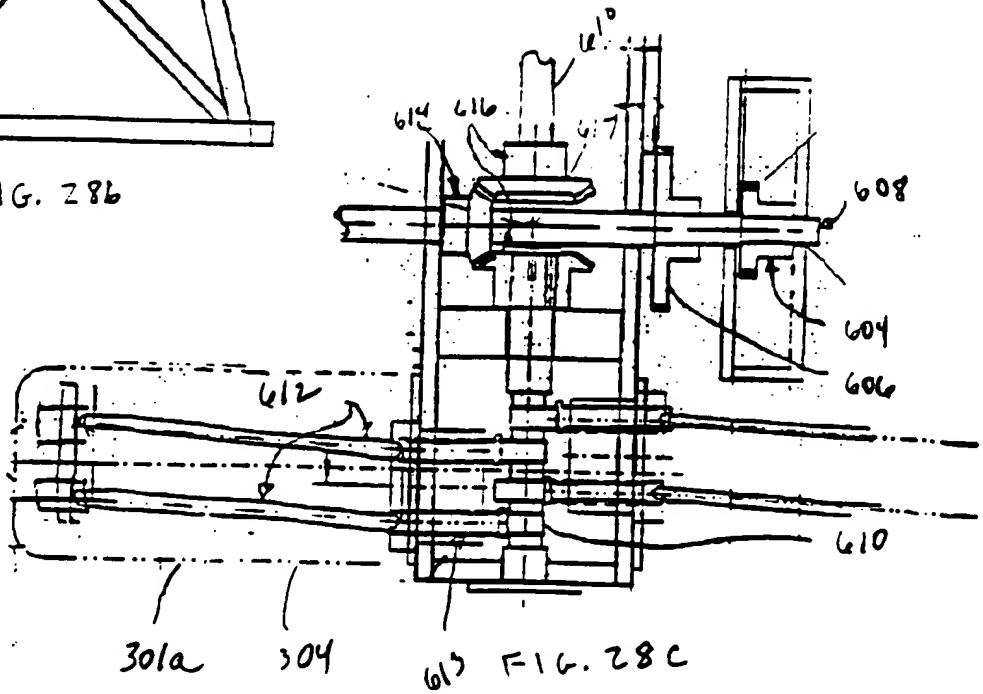


FIG. 28c

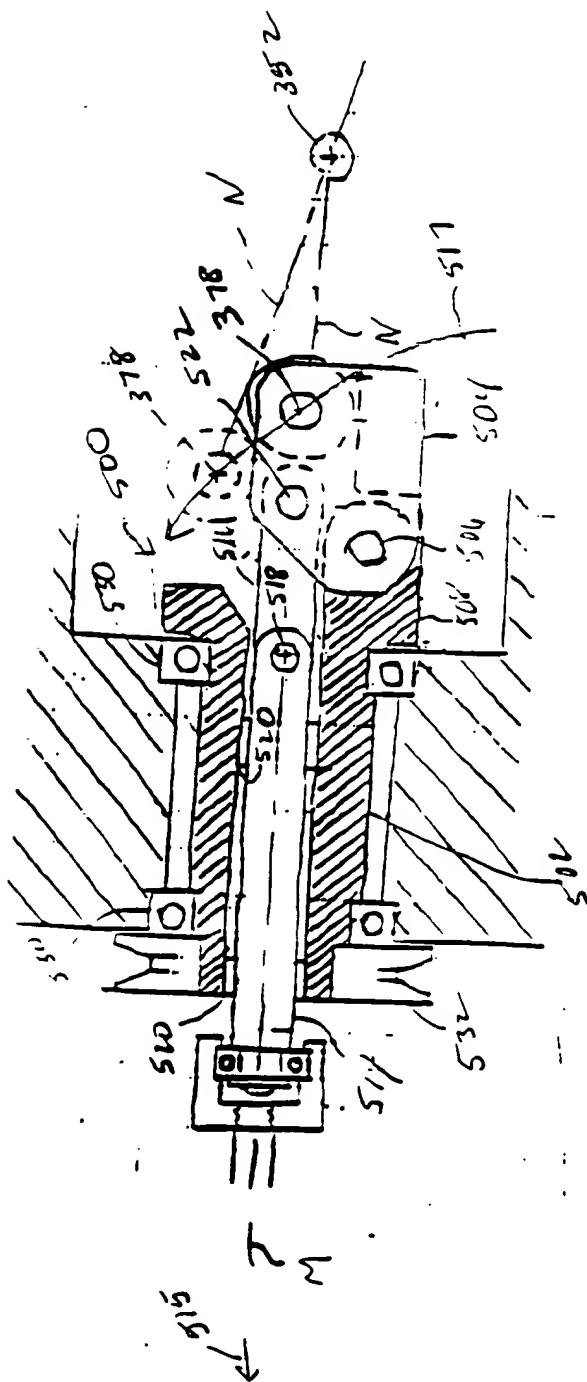


FIG. 29

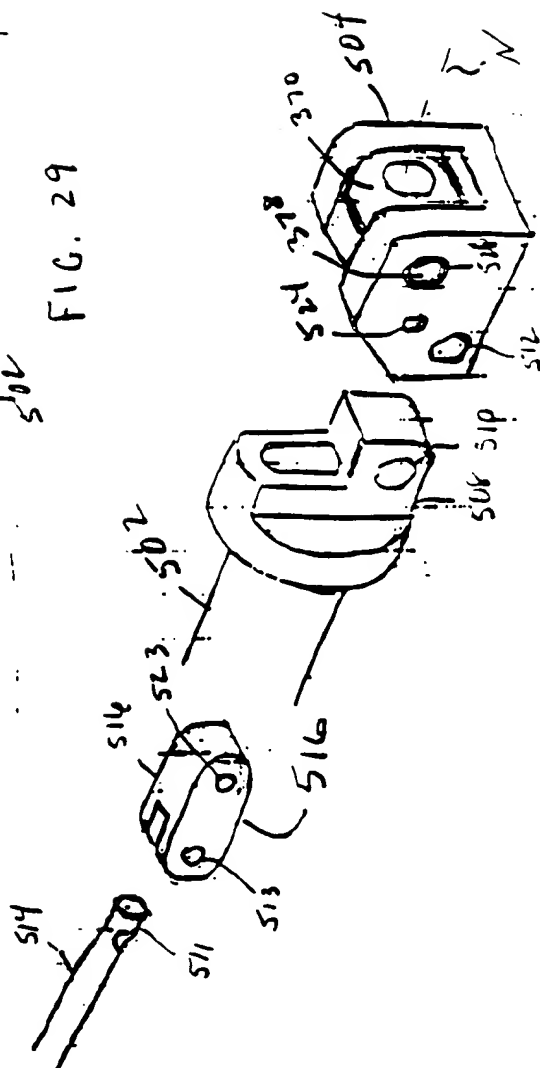
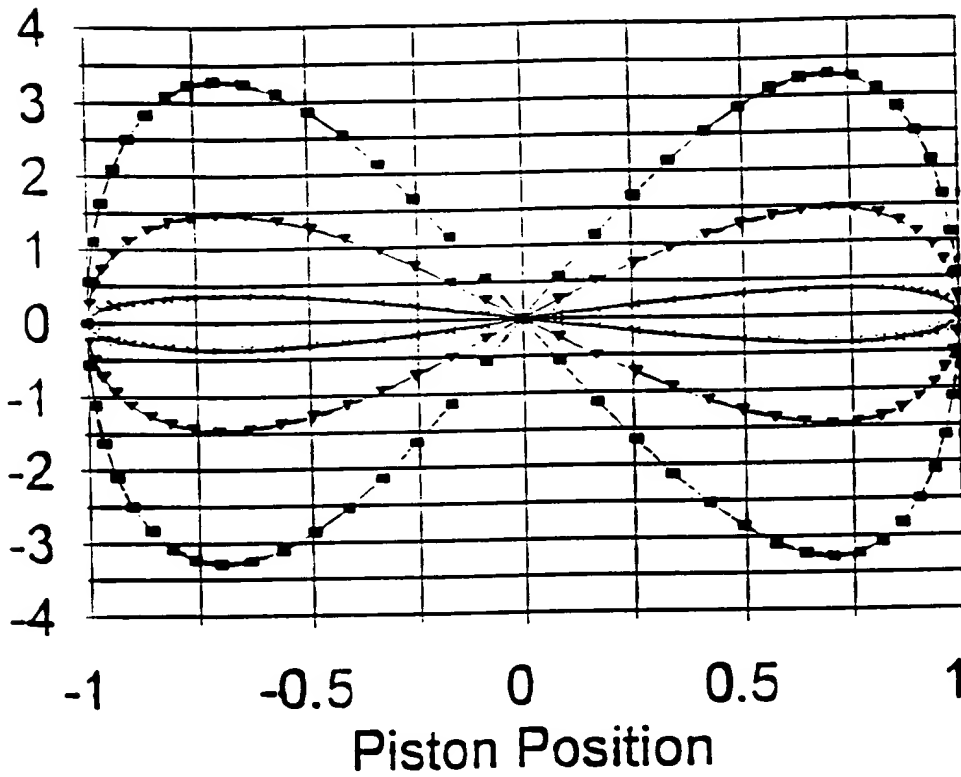


FIG. 29a

Piston Arm Deviation, Deg, Worst Arm

**Figure Eight Motion of Piston Arms**  
Cross U-Joint, Worst-case Deviation



**Mast  
Angle**

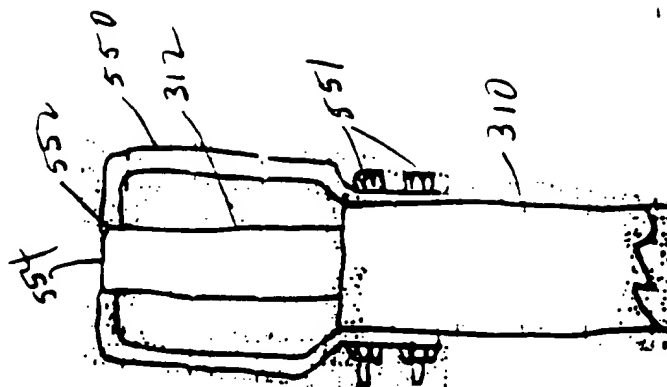
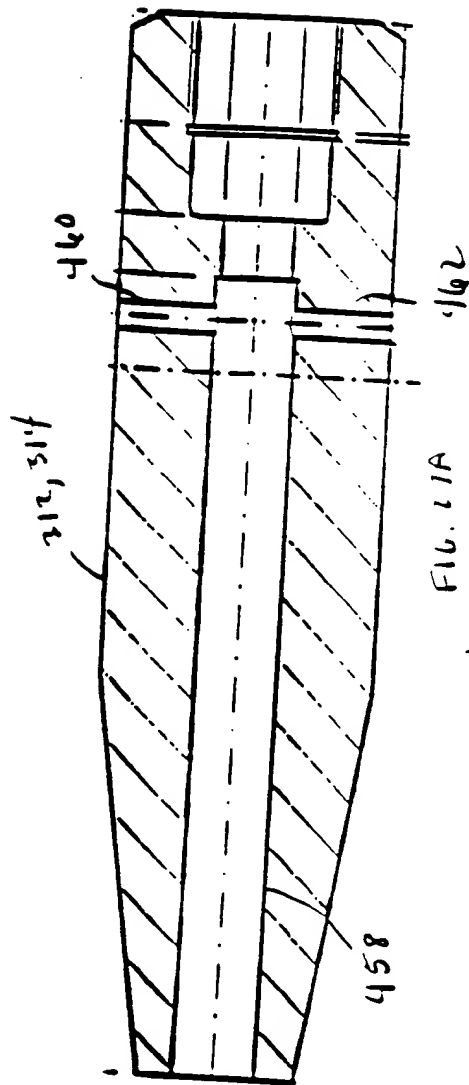
6.5

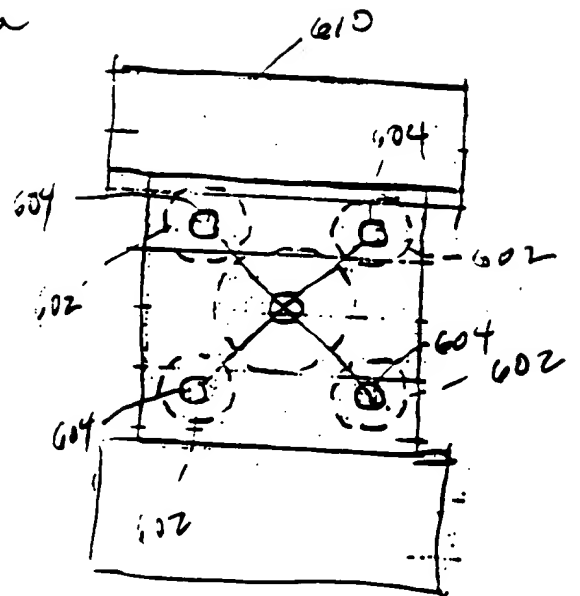
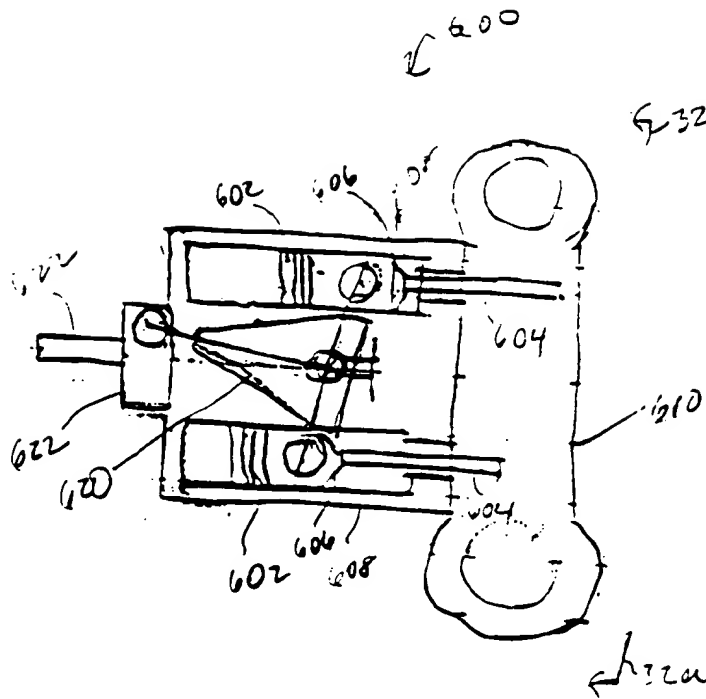
13.0

19.5

FIG. 30











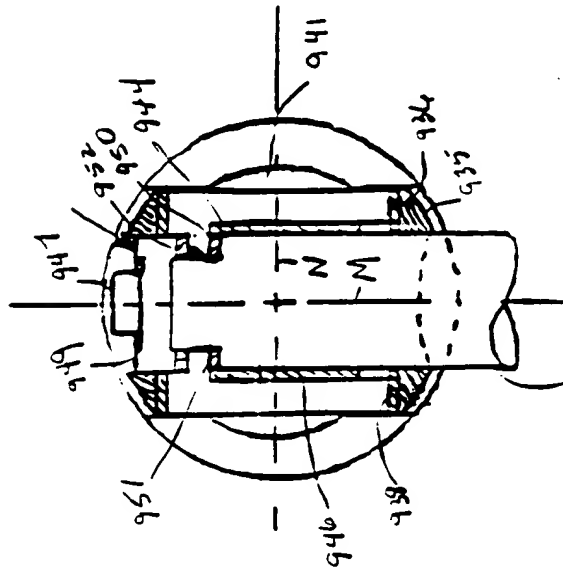


Fig. 35A

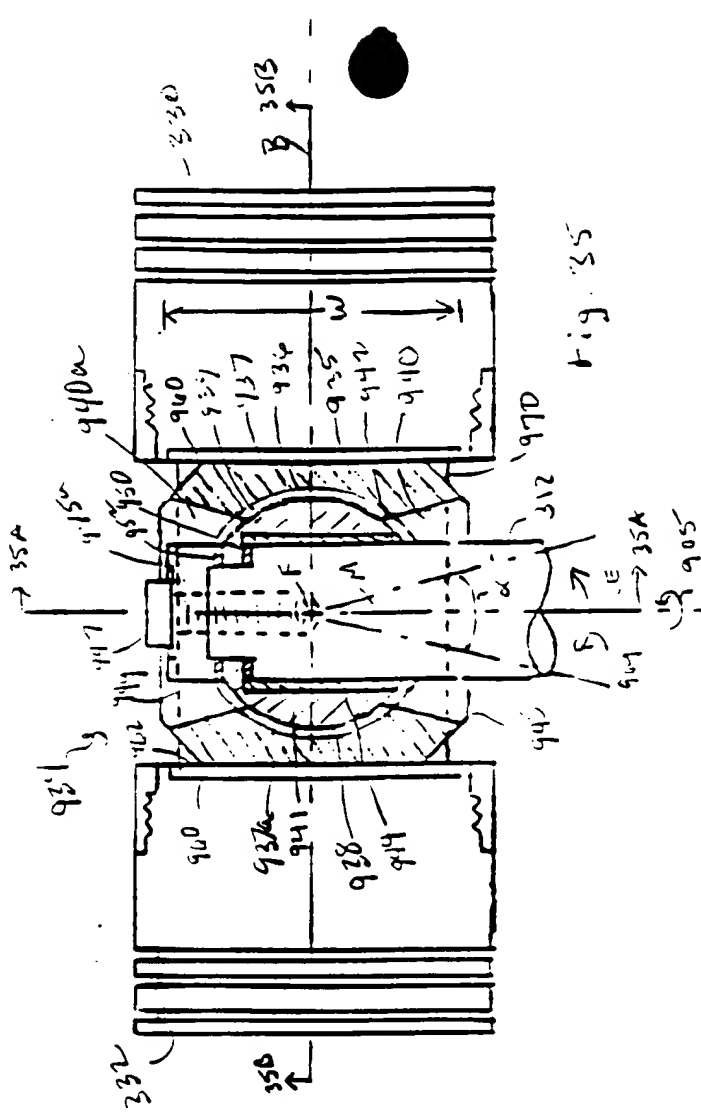


Fig. 35

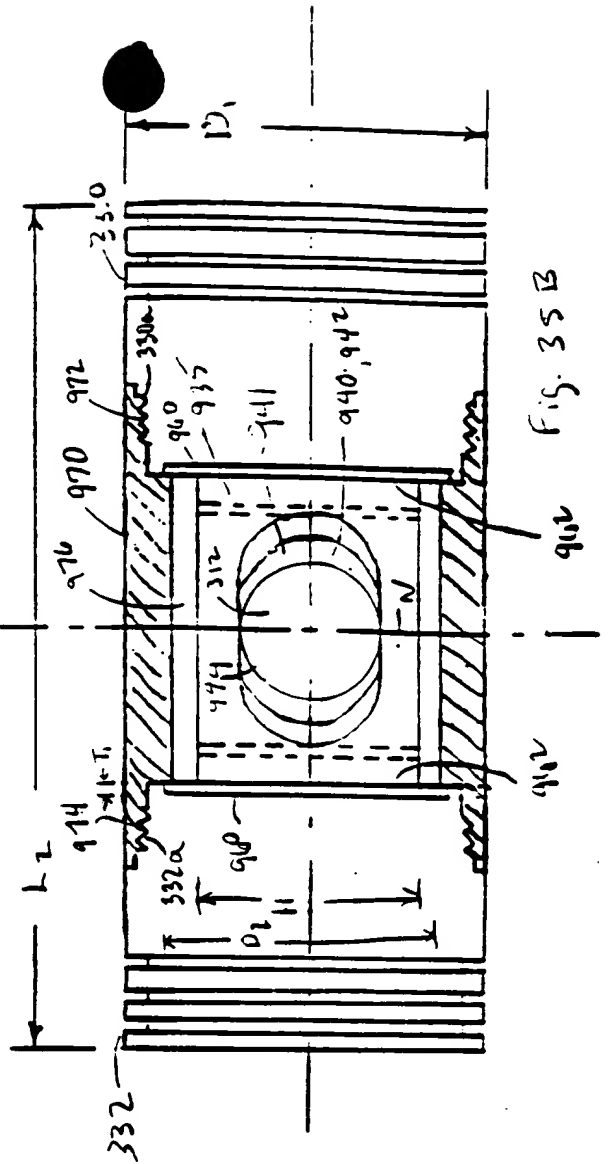


Fig. 35B

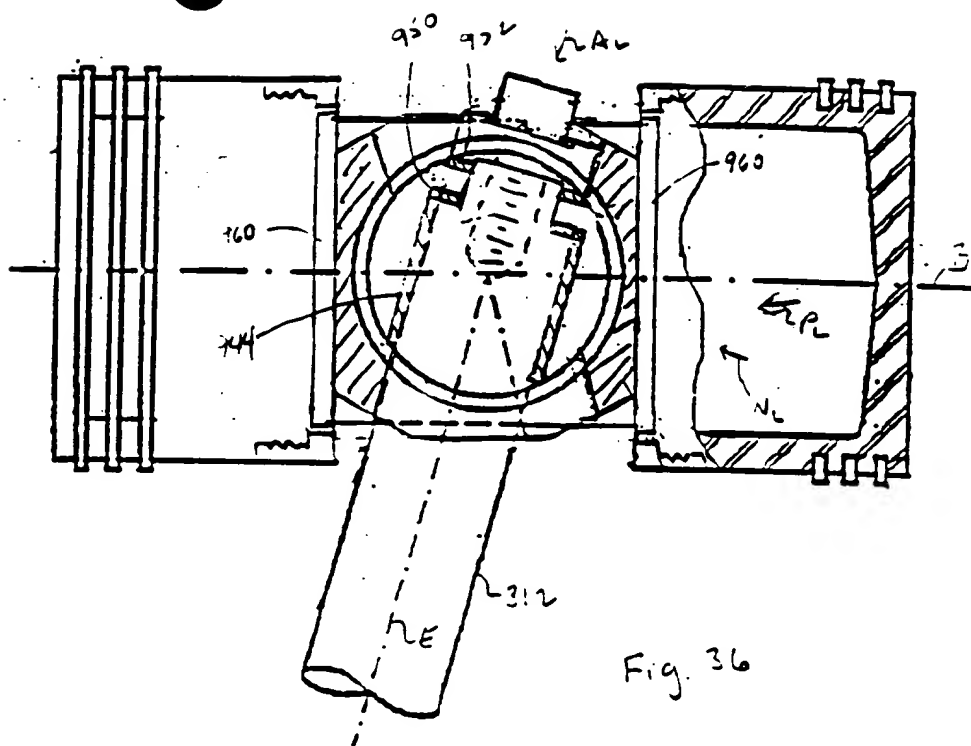


Fig. 36

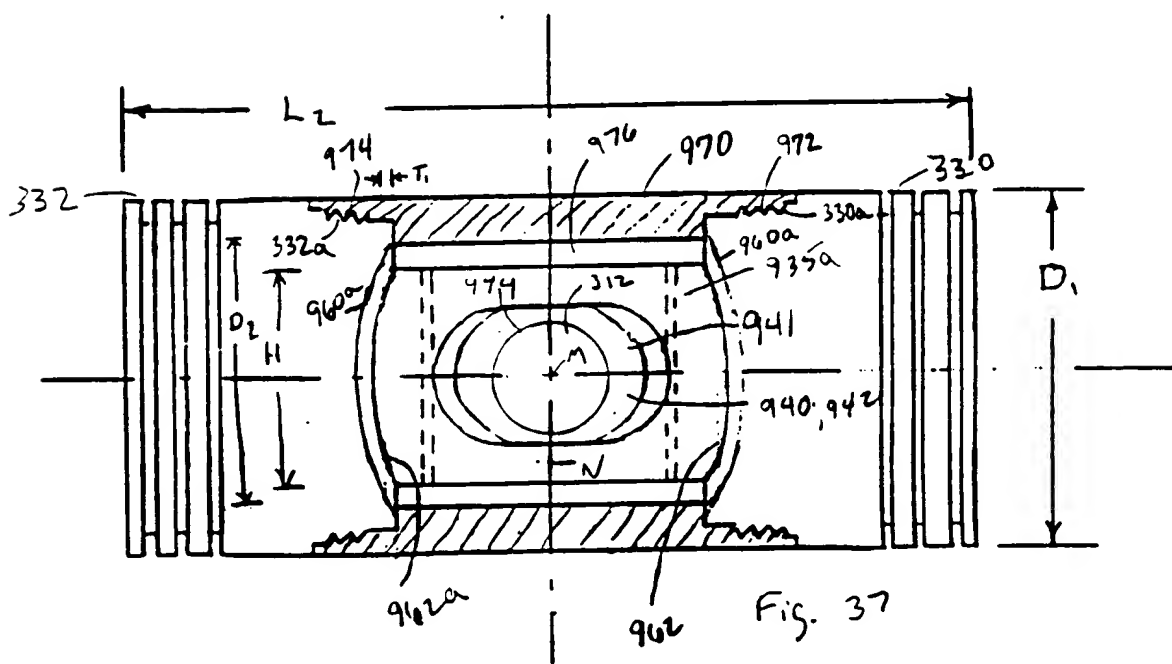


Fig. 37

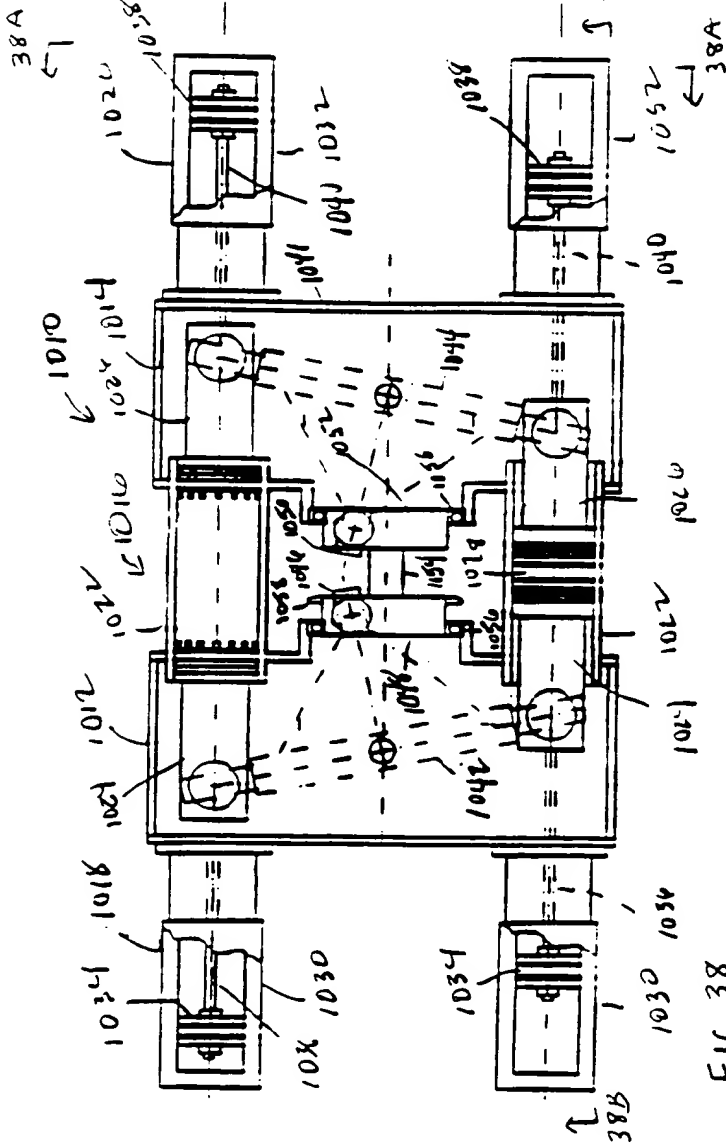


FIG. 38

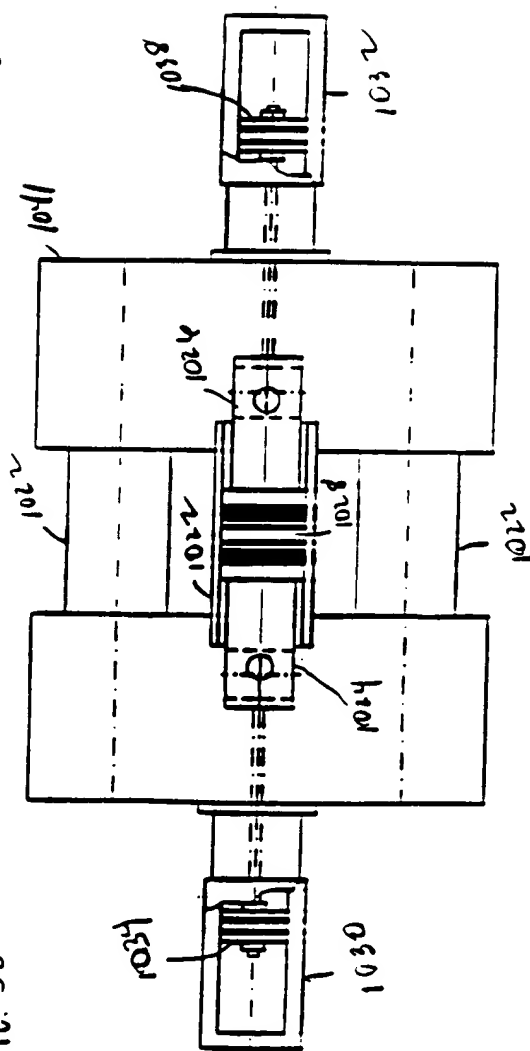


FIG. 38B

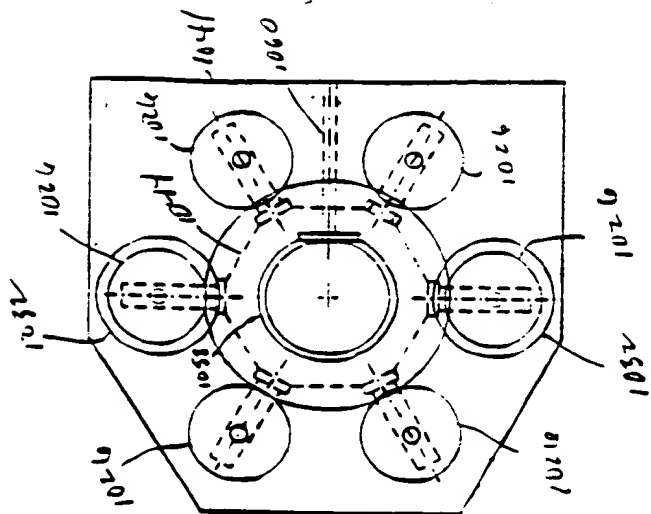


FIG. 38A